

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Marc Long, et al.

Serial No.: 10/049,916

Filed: February 19, 2002

For: COMBINATION OF PROCESSES
FOR MAKING WROUGHT
COMPONENTS

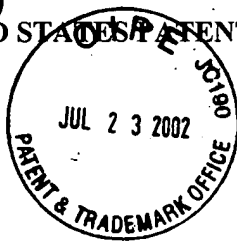
Commissioner of Patents
Washington, D.C. 20231

Group Art Unit:

Examiner:

Attorney Docket No. S0441/270427

Date: July 18, 2002



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N. Ch...
2-5-03

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants identify the documents listed on the modified form PTO-1449 accompanying this submission. Copies of the publications listed are enclosed for the Examiner's consideration. References on the Form PTO-1449 noted with a ** are unavailable at the present time. Copies will be provided when they become available.

Remarks

Applicants do not concede that the identified materials constitute prior art within the meaning of the United States patent laws.

Applicants file this paper pursuant to 37 C.F.R. 1.97(b)(3), before the mailing of a first Office action and, therefore, believe that no fee is due in connection with this filing. However, the Commissioner is authorized to debit Deposit Account No. 11-0855 for any such fee due should Applicants' belief be mistaken.

Respectfully submitted,

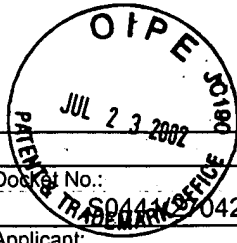
Kristin D. Mallatt

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ATTORNEY FOR ASSIGNEE

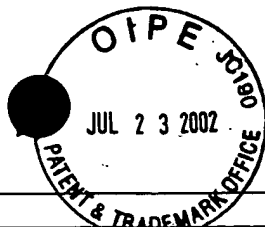
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Atlanta, Georgia 30309-4530
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Form PTO-1449				Sheet 1 of 3			
INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>				Docket No.: S0441690427		Application No.: 10/049,916	
				Applicant: Marc Long, et al.			
				Filing Date: February 19, 2002		Group Art Unit	
U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Translation
		4,301,856	11/24/81	DiRosa			
		4,408,379	10/11/83	Kusano, et al.			
		4,624,038	11/25/86	Walther			
		4,775,426	10/04/88	Murley, et al.			
		4,766,945	08/30/88	Sylvester			
		4,967,826	11/06/90	Kopp, et al.			
		5,065,510	11/19/91	Ostermann, et al.			
		5,092,390	03/03/92	Witt			
		5,156,202	10/20/92	Sick, et al.			
		5,213,149	05/29/93	Ruff, et al.			
		5,279,749	01/18/94	Hanano			
		5,287,910	02/22/94	Colvin, et al.			
		5,301,739	04/12/94	Cook			
		5,363,900	11/15/94	Betz			
		5,385,196	01/31/95	Hanano			
		5,441,334	08/15/95	Botterman, et al.			
		5,443,111	08/22/95	Colvin, et al.			
		5,446,962	09/05/95	Matossian, et al.			
		5,505,246	04/09/96	Colvin, et al.			
		5,690,759	11/25/97	Wang			
		5,725,041	03/10/98	Schultz			
		5,729,883	03/24/98	Yoshioka, et al.			
NON-U.S. PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation
		DE 2534611	03/18/76	Germany			Abstract
		2282850	03/26/76	France			
		GB 1 472 939 A	05/11/77	United Kingdom			
		JP 59 094555 A	05/31/84	Japan			Abstract
		EP 0 414 620 A	02/27/91	Europe			Abstract
		3-142031	06/17/91	Japan			Abstract
		WO 91/13181	09/05/91	PCT			
		55-144351	08/23/94	Japan			Abstract
		6-237553	06/15/95	Japan			Abstract
		07-178500	07/18/95	Japan			Abstract
		EP 0 665 299 A	08/02/95	Europe			
		WO 98/33610	08/06/98	PCT			
		WO 98/42460	10/01/98	PCT			
		EP 0 901 853 A1	03/17/99	Europe			
Examiner:				Date Considered:			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							



Sheet 2 of 3							
Form PTO-1449	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Docket No.: S0441/270427</td> <td style="width: 50%;">Application No.: 10/049,916</td> </tr> <tr> <td colspan="2">Applicant: Marc Long, et al.</td> </tr> <tr> <td>Filing Date: February 19, 2002</td> <td>Group Art Unit</td> </tr> </table>	Docket No.: S0441/270427	Application No.: 10/049,916	Applicant: Marc Long, et al.		Filing Date: February 19, 2002	Group Art Unit
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Filing Date: February 19, 2002	Group Art Unit						
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)							
OTHER MATERIAL							
1	"Aluminum and Aluminum Alloy Forgings," Japanese Industrial Standard, by Japanese Standards Association						
2	Anon, "Trends in Casting Technology," <i>Metal Progress</i> , 125(1):27-28 (January 1984) (Abstract)						
3	ASTM Designation: F1537-94 Standard Specification for Wrought Cobalt-28 Chromium-6 Molybdenum Alloy for Surgical Implants, pp. 860-862 (September 1994)						
4	ASTM Designation: F75-92 Standard Specification for Cast Cobalt-Chromium-Molybdenum alloy for Surgical Implant Applications, pp. 4-5 (February 1993)						
5	ASTM Designation: F799-96 Standard Specification for Cobalt-28 Chromium-6 Molybdenum Alloy Forgings for Surgical Implants (UNSR31537), pp. 220-222 (June 1996)						
6	ASTM E112-96						
7	ASTM F75-98						
8	"Aurora Metals, Vacuum Die Casting" www.aurorametals.com/vd.htm (August 19, 2000).						
9	Bossmeyer, "Aluminum Wheel in its Various Versions," <i>Conference title Aluminum & Automobil: Lectures held on an International Symposium</i> , Duesseldorf, West Germany (Published by Aluminum-Verlag GmbH, Duesseldorf, West Germany, p. 18 1-18.6 (1981)						
10	Colvin, "Permanent mold casting of titanium aerospace and automotive hardware," <i>Titanium '95: Science and Technology</i> , P.A. Blenkinsop, W. J. Evans and H. M. Flower, eds., The Institute of Materials, London, 691-701 (1995)						
**	"Forging of heat-resist alloys, Forming and Forging, Volume 14, <i>Metals Handbook Ninth Edition</i> , ASM International, Ohio 231-36 (1998)						
12	"Forging" www.ent.ohio.edu/~raub/manufacturing/forging.htm (August 19, 2000)						
**	German, <i>Powder Metallurgy Science 2nd ed.</i> , Metal Powder Industries Federation, Princeton, New Jersey (1994)						
14	Grubisic, et al., "Fatigue Life Prediction and Test Results of Aluminum Alloy, <i>Conference title Fatigue Prevention & Design, Proceedings of an International Conference</i> , Amsterdam, Netherlands (04/21/86 (Published by Engineering Materials Advisory Services, Ltd., London, England (Abstract)						
15	Howmet Corporation brochure entitled "Howmet Metal Mold..A fast, cost-effective option for high quality components," pp. 3-8 (1999)						
16	Howmet Research Corporation brochure entitled "High Temperature Metal Mold Casting," pp. 1-17 (March 1998)						
**	Kulkarni, "Hybrid processes combine casting and forging," <i>Machine Design</i> , 46(11):125-128 (1974)						
18	Larsen, "Vacuum diecasting yields quality parts," <i>Foundry Management & Technology</i> , (February 1998) (Howmet Corporation brochure)						
**	Long and Rack, "Thermo-mechanical stability of forged Ti-26Al-10Nb-3V-1Mo (at.%)", <i>Materials Science & Engineering</i> , A194, 99-111 (1995)						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Examiner:</td> <td style="width: 50%;">Date Considered:</td> </tr> </table>		Examiner:	Date Considered:				
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INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	Docket No.: S0441/270427		Application No.: 10/049,916
	Applicant: Marc Long, et al.		
	Filing Date: February 19, 2002		Group Art Unit
	OTHER MATERIAL		
	NP	Lowak, et al., "Moeglichkeiten zur lebensdauervorhersage fuer Bauteile aus aluminiumlegierungen," <i>Materialpruefung</i> , 27(11):337-343 (1985) (Abstract)	
	21	Matsui, "Squeeze Casting of aluminum Alloy," <i>Materia</i> , 33(9):1119-1125 (September 20, 1994) (Abstract)	
	22	"Metal Injection Molding" www.metalbot.com/inject.html (August 19, 2000)	
	23	"Recent Developments in Squeeze Casting or Pressure Forming," <i>Alum. Mag.</i> , 9:8-9 (1986) (Abstract)	
	24	Suzuki, et al., "Recent Trend of Research and Development on Squeeze Casting," <i>Sumitomo Light Met. Tech. Rep.</i> , 27(2):100-109 (April 1986) (Abstract)	
	25	"The Investment/Lost Wax Casting Process," www.implog.com/foundry/foudicg.htm (August 19, 2000).	
	26	Williams, "The Squeeze Forming of Aluminum Alloys," <i>AGARD</i> , " (August 1982) (Abstract)	
Examiner:			
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DT17 Rec'd PCT/PTO 23 JUL 2002

PTO/SB/21 (08-00)

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Approved for use through 10/31/2002. OMB 0651-0031

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/049,916
	Filing Date	February 19, 2002
	First Named Inventor	Marc LONG
	Group Art Unit	10/049916
	Examiner Name	
Total Number of Pages in This Submission	Attorney Docket Number	S0441/270427

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): -Form PTO 1449 (3 sheets) -58 publications -Return Receipt Postcard
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Kristin D. Mallatt, Reg. No. 46,895
Signature	<i>Kristin Mallatt</i>
Date	July 18, 2002

CERTIFICATE OF MAILING			
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on this date: July 18, 2002			
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